

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) Apparatus for stimulation of the human body, the apparatus comprising:

an array of stimulator elements arranged to be operated in a plurality of stimulator activation zone configurations so as to effect localised stimulation of said human body corresponding to each of said activation zone configurations; and

a user interface device including a selectable array of independent input zones, each input zone corresponding to a respective independent stimulator element, thereby permitting a user to relate each input zone of the interface device to the respective independent stimulator element, wherein the apparatus is operable in a mode in which the activation zone configuration of the array of stimulator elements is selected independently of the user and the user uses the interface device to identify the activation configuration as perceived by the user by selecting respective independent input zones of said user interface device,

wherein the user interface device is configured to determine if the input zone of the interface device selected by the user matches the activated stimulator activation zone configuration, and

wherein the user interface device is configured to alert the user as to whether the selected input zone matched the activated stimulator activation zone configuration.

2. (Previously Presented) Apparatus according to claim 1, wherein the interface device permits spatial and/or temporal correlation between the input zones of the interface device and the respective independent stimulator elements.

3. (Previously Presented) Apparatus according to claim 1, wherein the interface device includes an interface zone array corresponding to the positional spacing of activation zones of the array of stimulator elements.

4. (Previously Presented) Apparatus according to claim 1, wherein the interface device includes a screen providing output and/or permitting user input relating to the activation zones of the array of stimulator elements.

5. (Previously Presented) Apparatus according to claim 1, wherein the apparatus is operable in a second mode in which user input to the interface device determines the activation zone configuration of the array of stimulator elements.

6. (Original) Apparatus according to claim 5, wherein the interface device includes an input zone array corresponding spatially to the activation zone configuration of the array of stimulator elements.

7. (Canceled)

8. (Canceled)

9. (Previously Presented) Apparatus according to claims 5, permitting switching between modes.

10. (Previously Presented) Apparatus according to claim 1, further including means for storing results data.

11. (Previously Presented) Apparatus according to claim 1, wherein the array of stimulator elements are carried in a predetermined spatial relationship on a support member.

12. (Original) Apparatus according to claim 11, wherein the support member comprises a garment to be worn by the user.

13. (Original) Apparatus according to claim 12, wherein the garment comprises a corset to be worn by the user.

14. (Original) Apparatus according to claim 11, wherein the support member comprises an implant for insertion in the body.

15. (Previously Presented) Apparatus according to claim 11, wherein the support member includes barrier zones about the independent stimulator elements to maximize attenuation beyond the locality of the independent stimulator elements.

16. (Previously Presented) Apparatus according to claim 1, wherein the independent stimulator elements are arranged grid-wise in rows and columns.

17. (Previously Presented) Apparatus according to claim 1, wherein the independent stimulator elements comprise vibrator devices.

18. (Previously Presented) Apparatus according to claim 1, wherein the stimulation intensity of the independent stimulator elements can be varied.

19. (Previously Presented) Apparatus according to claim 1, wherein the activation duration of the independent stimulator elements can be varied.

20. (Previously Presented) Apparatus according to claim 1, including a control arrangement to control the interaction between the interface device and the stimulator element array.

21. (Previously Presented) Apparatus according to claim 1, wherein the apparatus includes data transmitting means whereby results from the apparatus can be downloaded to a processor by wire or wireless connections.

22. (Original) Apparatus according to claim 21 wherein the processor forms part of one or more of: a personal computer, a palm top computer, a lap top computer, a mobile phone, or a custom built device.

23. - 27. (Cancelled)

28. (New) A method of cerebral cortical reorganization of a user comprising the steps of:

positioning an array of independent stimulator elements on a user, wherein the array of independent stimulator elements are arranged to be operated in a plurality of stimulator activation zone configurations, each stimulator activation zone configuration including one or more independent stimulator elements;

providing the user with an interface device including a selectable array of independent input zones, each input zone depicting a stimulator activation zone configuration;

activating a stimulator activation zone configuration of the array of stimulator elements in a random fashion without influence by the user to effect localized stimulation of the user for a predetermined duration at a predetermined intensity;

requesting the user to identify the activated stimulator activation zone configuration by selecting a corresponding input zone of the user interface device;

determining if the input zone of the interface device selected by the user matches the activated stimulator activation zone configuration; and

alerting the user as to whether the selected input zone matched the activated stimulator activation zone configuration.